

Fig 1

Lance Penetration into Confined Space Connected to CO₂ Cylinder(s)

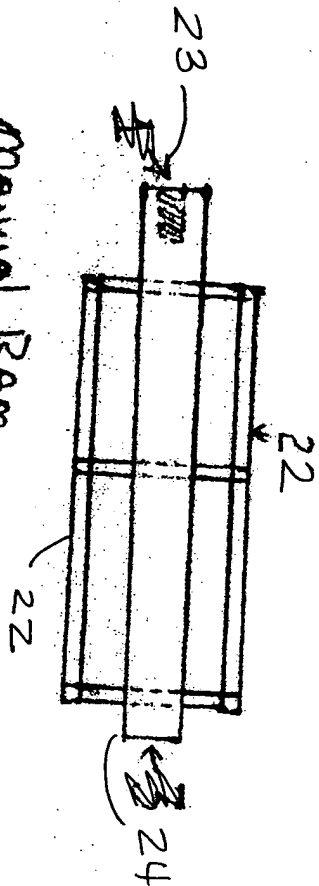


Fig 2

Manual Ram

- 1 Hollow insert for lance connection cylinder insertion
- 2 Handles for grasping
- 3 Heavy steel cylinder for kinetic energy transfer to lance

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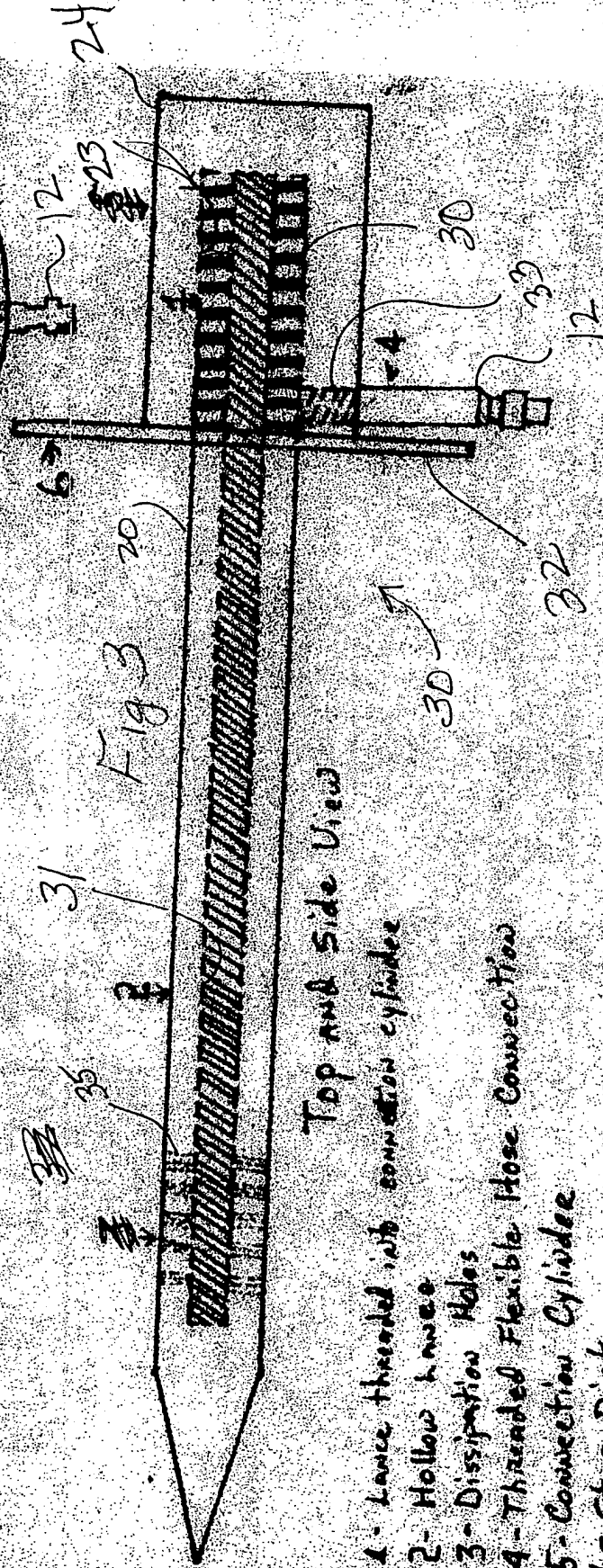
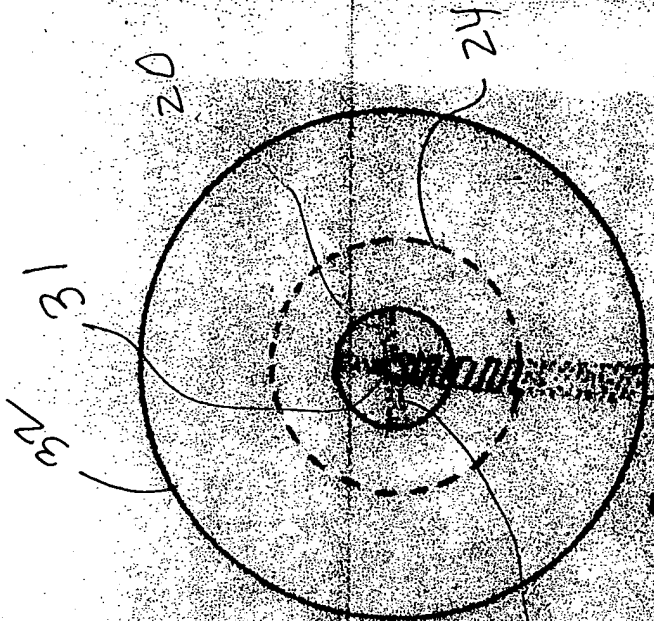
Pg 1

Penetrator Lance #1

Lance 1, 2, and 5 Same Design
with varying materials and dimensions

Fig 4

Fig 3



Top and Side View

- 1- Lance threaded into connection cylinder
- 2- Hollow lance
- 3- Dissipation Holes
- 4- Threaded Flexible Hose Connection
- 5- Connection Cylinder
- 6- Stop Disk

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Heavy Steel Cylinder

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Fig 6

End View
Connection
End

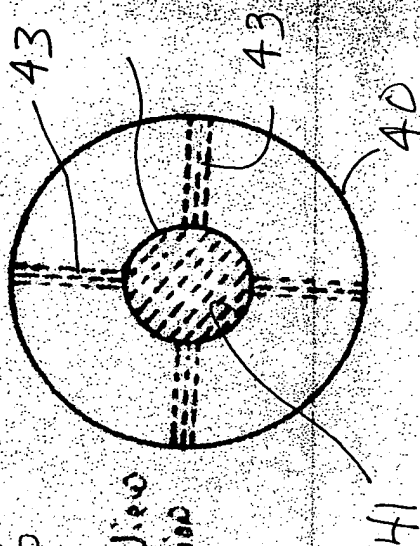
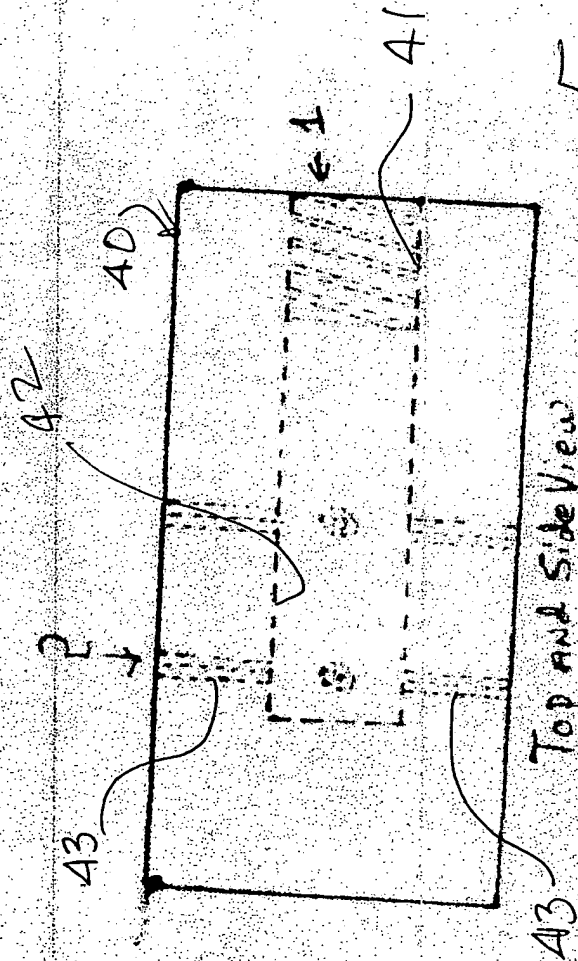


Fig 5

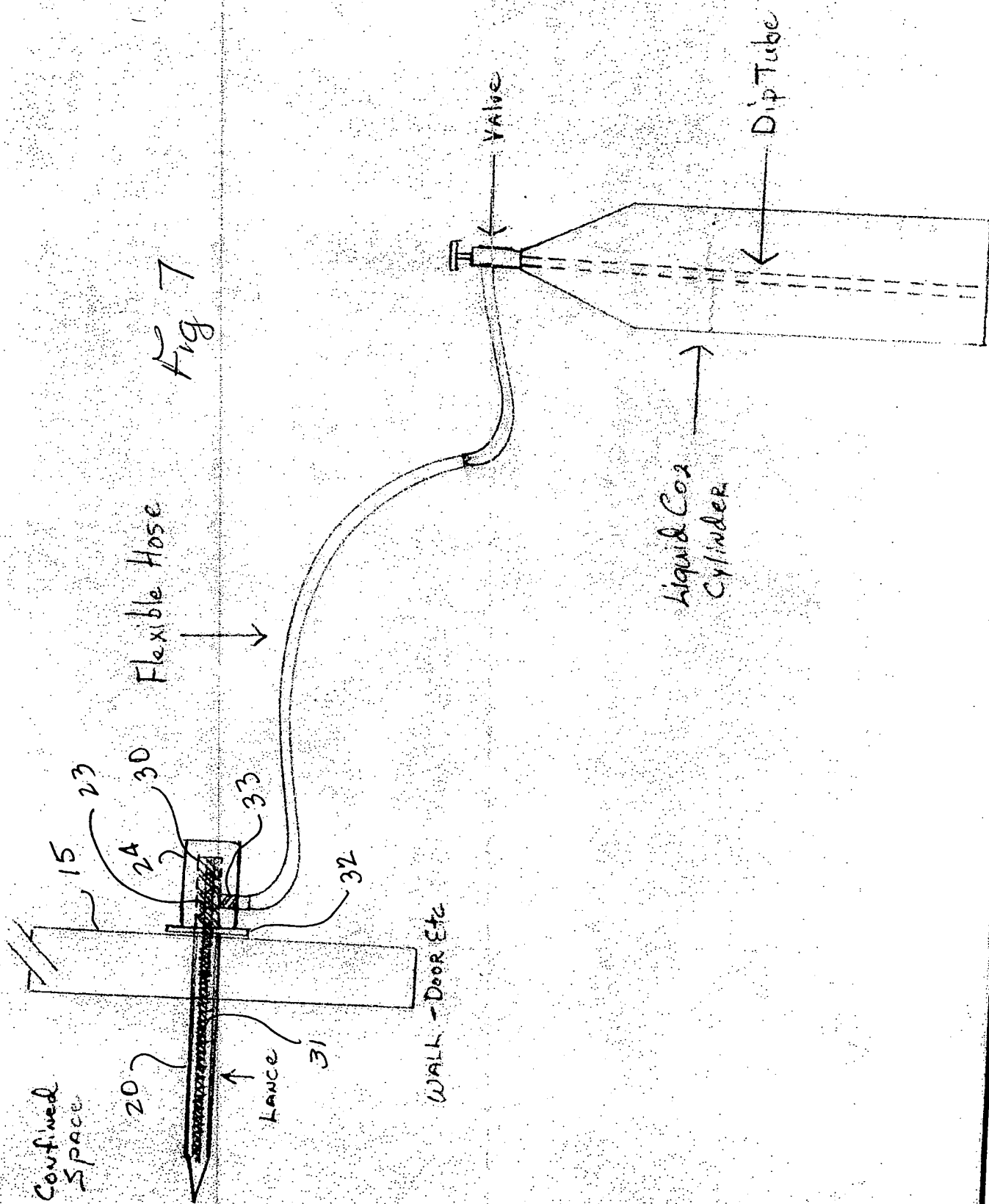


Top and Side View

- 1- Threaded Flexible Hose Connection
- 2- Dissipation Holes

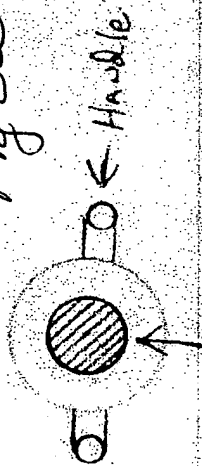
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pg 3



Long Ram End View

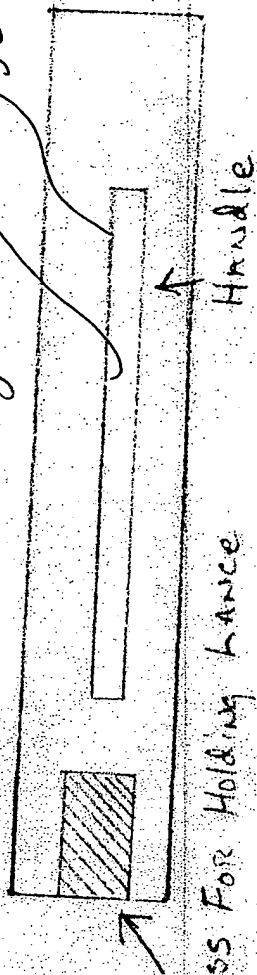
Fig 8a



Recess For
Holding Lance

Long Ram Side View

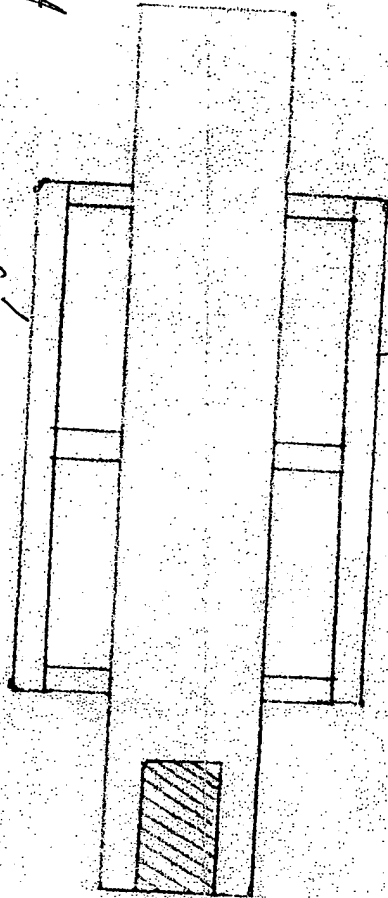
Fig 8b



Recess For Holding Lance

Fig 8c

53



Long Ram Top View

53

5D

Short Ram

Fig 9a

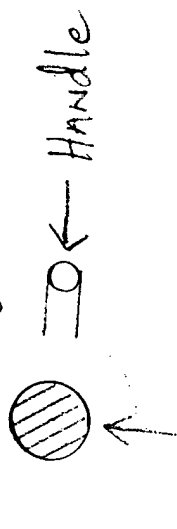


Fig 9b

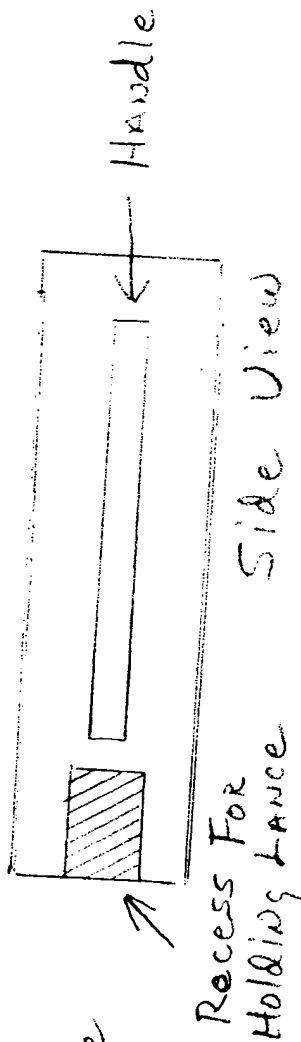
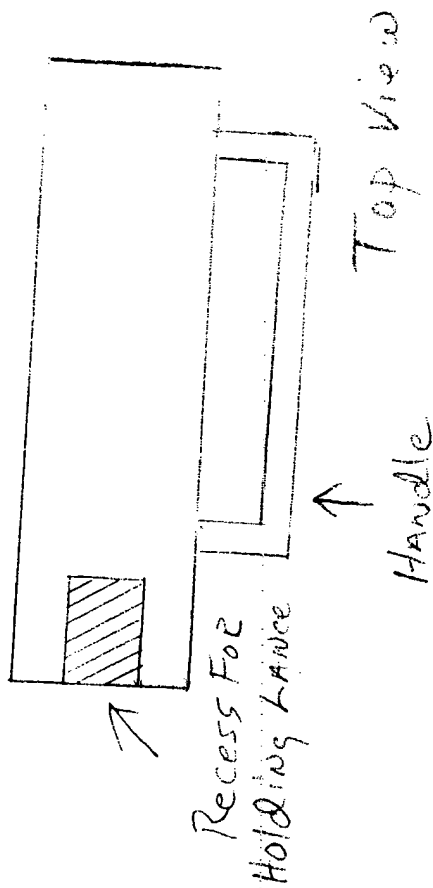
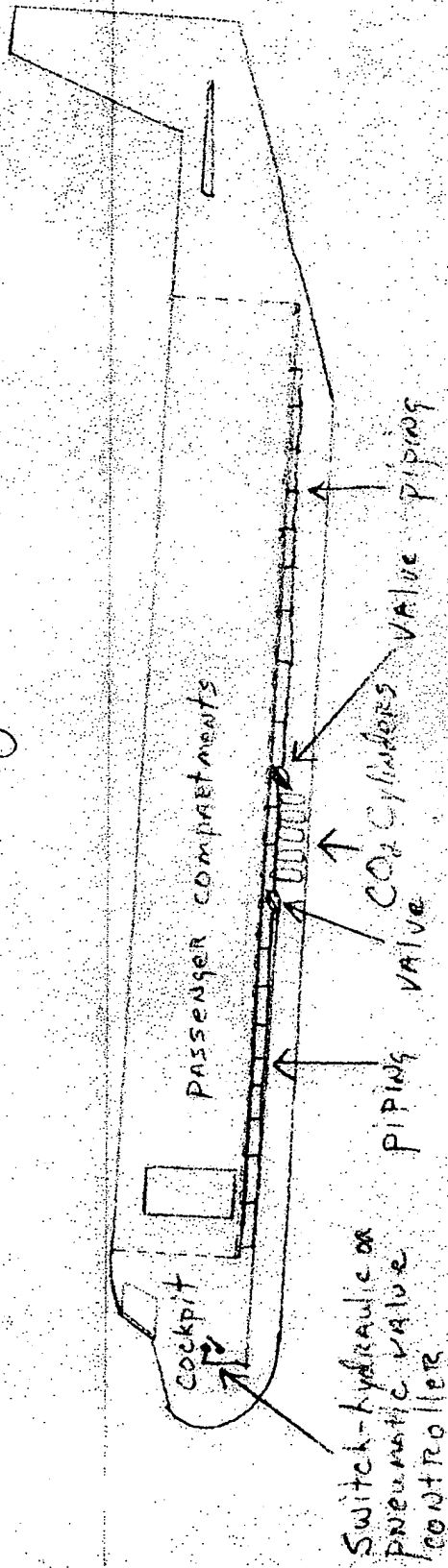


Fig 9c



BASIC AIRCRAFT SYSTEM

Fig 10



Wedge For Under Door Insertion

